An annoted bibliography on computational probability

PART 1

BIBLIOGRAPHY 006

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ABSTRACT

This is the first part of a bibliography on computational probability. It lists over five hundred references to published papers, technical reports and theses, which deal with algorithmic solutions to probability problems or which contain useful information on the computational aspects of such problems.

1. INTRODUCTION

Since 1950 there has been an impressive development of the theory of stochastic models for such phenomenon as waiting lines, epidemics, dams, computer systems, inventories and the reliability of composite systems. The most accessible information about such models is given by simple explicit formulas and tractable qualitative features such as growth rates and relaxation time parameters. As the models grow increasingly complex and more detailed information about them becomes desirable, the available explicit results tend to be inadequate or intractable. There is also an undue emphasis on analytic results, even if these involve integral transforms which may not be readily invertible or otherwise illuminating. This emphasis may be largely a holdover from the pre-computer era, when large scale numerical computations involved a prohibitive amount of human effort.

In recent years the computer has enabled the applied probabilist to obtain far more refined information on complex models and also to develop models for substantially more involved phenomena than was previously possible. In disciplines such as statistics or mathematical programming, there is already a well-established tradition of algorithmic solution, but in stochastic modelling the investigation of exact computational methods is of much more recent date. The availability of computer simulation has made it a panacea used by the practitioner, who often feels that the only alternative offered by the theoretician is an involved and unilluminating treatment in terms of multiple integral transforms or difficult singular integral equations. What ought to be a solution method of last resort, is often applied to models, whose algorithmic solution can easily be carried out at a small fraction of the cost and with far greater precision.

As any computationally experienced mathematician knows, it is hazardous to attempt any non-trivial computation without a detailed analysis of the structure of the problem. In fact the development of a good algorithm is as challenging as the analytic investigation, and it uses substantially the same mathematical ideas and techniques. Even in papers which include some numerical results, there is still a wide-spread practice to omit all discussion of the algorithm or to limit it to a few terse comments. The practitioner who wishes to extend the range of the numerical results or to solve a related problem, is then required to start the work anew. Much useful algorithmic information remains buried in unpublished theses or technical reports and already there is also much duplication of effort in the existing papers on computational probability.

The latter observation prompted the author to compile a bibliography on computational probability to make it available to interested research workers in this field and also to serve as an aid to his own efforts in this area. A large number of probabilists were contacted by letter or by the kind assistance of several journals and an unaided one-man examination of several periodicals over the recent volumes was carried out. The response was encouraging and several individuals, who will be acknowledged below, sent much information on work other than their own. In order to keep the size of the bibliography manageable, it was planned to issue Part I when five hundred references had been accumulated. This goal was attained late in 1975 and by including a few latecomers, the present number was reached.

It is the author's intention to make this a continuing project. Authors are solicited to supply reprints or preprints of articles to be listed in a second part of the bibliography, which will be issued as soon as a sufficient number of additional references become available. Only titles which come under the general heading of computational probability will be included and the final decision on whether the material is germane will be made by the compiler. Corrections and updated information on unpublished material in Part I will also be given in the subsequent issues.

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2. SCOPE OF THE BIBLIOGRAPHY

It has been the intention to make the scope of the bibliography as wide as possible and to include as much germane and informative material as possible. There are some areas which are already so extensively developed that a systematic search for all references would have been prohibitive. These include the very extensive literature on computational methods in statistics and the vast area of random number generation. Generally adequate and extensive bibliographies on these are available. The compiler has therefore included only those papers in these areas which were directly brought to his attention by the authors or others, or which appeared to have a wider algorithmic interest and were of a recent date.
Some related bibliographies to be consulted are listed in the next section.

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The following persons contributed references to papers by other authors : J. Beekman, R. Butterworth, J. Buzen, E. L. Crow, W. D'Avanzo, P. Erdi, W. K. Grassmann, H. O. Hartley, J. Liittschwager, P. Schweitzer, M. Starr, C. A. Steele Jr., J. Tóth, S. Zacks.

The Editors of the following Journals have kindly printed announcements of this bibliographic project : SIAM News, MS/OR Today, Journal of Applied Probability and Bulletin of the I.M.S.

To all these individuals the author expresses deep appreciation for their cooperation.
The research was sponsored by the Air Force Office of Scientific Research, Air Force Systems Command, USAF, under Grant no. AFOSR-72-2350B.

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